

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(low pressure discharge vessel glass gas tight sealed filling noble mixture possibly mercury fluorescent inner wall two power supply lines fused ends parallel longitudinal axis envelope filament transversely fixed inner switching strength lamp coldstarting operation conductive tube further electrode connected Rinner tube free distance radius section).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2008/04/09 06:34
L2	0	(low pressure discharge vessel glass gas sealed filling noble mixture possibly mercury fluorescent inner wall two power supply lines fused ends parallel longitudinal axis envelope filament transversely fixed inner switching strength lamp coldstarting operation conductive tube further electrode connected Rinner tube free distance radius section).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2008/04/09 06:35
L3	0	(low-pressure discharge lamp tubular discharge vessel glass sealed gas-tight noble gas mixture mercury fluorescent coating inner wall power supply lines fused ends parallel longitudinal axis filament electrode transversely coldstarting conductive further free distance inner radius).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2008/04/09 06:39
L4	0	(("low-pressure") discharge lamp tubular discharge vessel glass sealed ("gas-tight") noble gas mixture mercury fluorescent coating inner wall power supply lines fused ends parallel longitudinal axis filament electrode transversely coldstarting conductive further free distance inner radius).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2008/04/09 06:41
L5	1	(("low-pressure") discharge lamp tubular discharge vessel glass sealed ("gas-tight") noble gas mixture mercury fluorescent coating inner wall power supply lines fused ends parallel longitudinal axis filament electrode transversely coldstarting conductive).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2008/04/09 06:46

S1	768	(low and pressure and discharge adj lamp) AND (mercury Hg fluorescent filament electrode nickel ruthenium tungsten) AND (wire with diameter)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 10:42
S2	515	S1 AND @ad<"20040129"	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 10:37
S3	429	S1 AND @ad<"20040129"	USPAT; USOCR	OR	ON	2007/09/24 10:38
S4	66	S3 AND ((second adj electrode\$1) (additional adj electrode\$1) (further adj electrode\$1))	USPAT; USOCR	OR	ON	2007/09/25 06:56
S5	45	(low adj pressure adj discharge adj lamp) AND (mercury Hg fluorescent filament electrode nickel ruthenium tungsten) AND (wire with diameter)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 10:53
S6	7	S5 AND ((second adj electrode\$1) (additional adj electrode\$1) (further adj electrode\$1)(more adj electrode\$1))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 10:49
S7	700	(low adj pressure adj discharge adj (lamp or lite or light or device or apparatus))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 10:56
S8	1115079	(mercury Hg fluorescent nickel ruthenium tungsten filament)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 10:58
S9	629	S7 AND S8	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 13:15
S10	494	S9 AND @ad<"20040129"	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 10:59
S11	58	S10 AND ((second adj electrode \$1) (further adj electrode\$1) (additional adj electrode\$1) (more adj electrode\$1))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 11:01
S12	700	(low adj pressure adj discharge adj (lamp or lite or light or device or apparatus))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 13:17
S13	1115079	(mercury Hg fluorescent nickel ruthenium tungsten filament)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 13:17
S14	629	S12 AND S13	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 13:17
S15	13	S14 AND (electrode adj extend \$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 13:31
S16	0	S15 AND (electrode near20 percent)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 13:19
S17	13	S14 AND (wire adj diameter)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 14:39
S18	768	(low and pressure and discharge adj lamp) AND (mercury Hg fluorescent filament electrode nickel ruthenium tungsten) AND (wire with diameter)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 15:31

S19	63	S18 and ((separation with (electrode near\$10 filament)) ("filament gap") ("electrode gap"))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 15:08
S20	48	S19 and @ad< "20040129"	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 15:08
S21	45	(low adj pressure adj discharge adj lamp) AND (mercury Hg fluorescent filament electrode nickel ruthenium tungsten) AND (wire with diameter)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 15:32
S22	696	(low adj pressure adj discharge adj (lamp light lite device))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 15:42
S23	21421	((electrode adj gap) (filament adj gap) ("gap between electrodes") ("space between electrodes") ("gap between electrode and filament") ("space between electrode and filament") ("distance between electrode\$1") ("distance between filament and electrode"))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 15:50
S24	13	S22 and S23	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/25 06:06
S25	0	S22 and S23	JPO	OR	ON	2007/09/24 15:48
S26	0	S22	JPO	OR	ON	2007/09/24 15:48
S27	334	(low adj pressure adj discharge)	JPO	OR	ON	2007/09/24 15:49
S28	0	S27 AND ((electrode adj gap) (filament adj gap) ("gap between electrodes") ("space between electrodes") ("gap between electrode and filament") ("space between electrode and filament") ("distance between electrode\$1") ("distance between filament and electrode"))	JPO	OR	ON	2007/09/24 15:51
S29	0	S27 AND ((electrode adj gap) (filament adj gap) ("gap between electrodes") ("space between electrodes") ("gap between electrode and filament") ("space between electrode and filament") ("distance between electrode\$1") ("distance between filament and electrode"))	EPO; JPO; DERWENT	OR	ON	2007/09/24 15:51
S30	1	"3549937".pn.	USPAT	OR	ON	2007/09/25 06:06
S31	5	("3549937").URPN.	USPAT	OR	ON	2007/09/25 06:17
S32	850	((("low pressure discharge") adj (lamp lite light device apparatus))	USPAT; USOCR; JPO	OR	ON	2007/09/25 07:14

S33	32895	((electrode filament) with (gap distance space opening)) same (radius diameter)	USPAT; USOCR; JPO	OR	ON	2007/09/25 06:27
S34	45	S32 AND S33	USPAT; USOCR; JPO	OR	ON	2007/09/25 06:27
S35	768	(low and pressure and discharge adj lamp) AND (mercury Hg fluorescent filament electrode nickel ruthenium tungsten) AND (wire with diameter)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/25 06:58
S36	429	S35 AND @ad< "20040129"	USPAT; USOCR	OR	ON	2007/09/25 06:58
S37	66	S36 AND ((second adj electrode \$1) (additional adj electrode\$1) (further adj electrode\$1))	USPAT; USOCR	OR	ON	2007/09/25 06:58
S38	44	S37 AND ((gap distance space opening) same (radius diameter))	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2007/09/25 06:59
S39	196	S32 AND ((gap distance space opening) with (electrode anode cathode filament))	USPAT; USOCR; JPO	OR	ON	2007/09/25 07:16
S40	196	S32 AND ((gap distance space opening) with (electrode anode cathode filament))	USPAT; USOCR; JPO	OR	ON	2007/09/25 07:16
S41	0	"4879493".pn. and "3549937".pn. and "5905339".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/25 09:10
S42	18	4879493 3549937 5905339.pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/25 09:11
S43	1	"4879493".pn.	USPAT	OR	ON	2007/09/25 09:13
S44	1	"5905339".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/25 09:14
S45	8	("2341990"   "2403184"   "2832912"   "4463285"   "4521718").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/08 09:56
S46	5	("3549937").URPN.	USPAT	OR	ON	2008/03/08 10:06
S47	160951	(low near1 pressure)	USPAT	OR	ON	2008/03/08 10:09
S48	379262	(low near1 pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:09
S49	379262	(low near1 pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:09

S50	726993	lamp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:09
S51	28195	S49 and S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:09
S52	3018	S51 and filament	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:10
S53	188	S52 and getter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:10
S54	1	S53 and (filament near10 getter near10 (distance diameter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:45
S55	0	S53 and (electrode near10 getter near10 (distance diameter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:47
S56	13	S53 and ("distance between") near10 electrode)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:49
S57	0	(low near1 pressure near1 lamp) and ("distance between") near10 electrode near20 getter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:57
S58	0	(low near1 pressure near1 lamp) and ("distance between") near40 electrode near40 getter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:57

S59	362	(low near1 pressure near1 lamp) and ("distance between")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:58
S60	3	S59 and ((electrode filament) near20 getter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:59
S61	6	S59 and getter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 10:59
S62	0	313/178.ccls.	USPAT	OR	ON	2008/03/08 11:04
S63	0	(313/178).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/08 11:04
S64	0	(313/178,179,109,185).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/08 11:06
S65	6	("distance between") near5 (electrode filament) near5 getter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/08 11:12
S66	16785	(313/627-643,567,111-117,25- 27,318.01-318.09 439/615,739 445/24,26,29,22).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/08 11:51
S67	712	S66 and low and (electrode filament) and getter	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/08 11:52
S68	172	S67 and (low near1 pressure)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/08 11:53
S69	4	("3549937" "4879493" "5905339").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 14:45
S70	4	("3549937" "4879493" "5905339").pn.	USPAT; USOCR	OR	ON	2008/03/11 14:45

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